



All dimensions are in mm; tolerances according to ISO 2768 m-H

**Interface**

According to

Rosenberger 28S000-000, series QMA  
Rosenberger is an authorised QLF® manufacturer

**Documents**

Assembly instruction

28 B

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Body
- Dielectric
- Unlocking sleeve
- Crimping ferrule

**Material**

- Brass
- Spring bronze
- Brass
- PTFE
- Brass
- Copper

**Plating**

- AuroDur, gold plated
- White bronze(e.g. Optalloy®)
- Flash white bronze over silver(e.g. Optargen®)
- White bronze(e.g. Optalloy®)
- Flash white bronze over silver(e.g. Optargen®)

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RF\_35/12.04/3.0

**Electrical data**

|                                     |  |
|-------------------------------------|--|
| Impedance                           | 50 Ω   |
| Frequency                           | DC to 18 GHz   |
| Return loss                         | ≥ 26 dB, DC to 3 GHz<br>≥ 24 dB, 3 to 4 GHz<br>≥ 18 dB, 4 to 6 GHz |
| Insertion loss                      | ≤ 0.05 x √f(GHz) dB, DC to 6 GHz                                   |
| Insulation resistance               | ≥ 5 x10 <sup>3</sup> MΩ  |
| Center contact resistance           | ≤ 3 mΩ   |
| Outer contact resistance            | ≤ 2.5 mΩ   |
| Test voltage, at sea level, 50Hz    | 750 V rms  |
| Working voltage, at sea level, 50Hz | 350 V rms  |
| RF-leakage                          | ≥ 95 dB up to 2 GHz<br>≥ 80 dB up to 4 GHz<br>≥ 70 dB up to 6 GHz  |

- Limitations are possible due to the used cable type -

**Mechanical data**

|                                   |           |
|-----------------------------------|-----------|
| Mating cycles                     | min. 100  |
| Center contact captivation: axial | ≥ 20 N    |
| Engagement force                  | typ. 25 N |
| Disengagement force               | typ. 20 N |
| Retention force for interface     | 60 N min. |

**Environmental data**

|                         |                                |
|-------------------------|--------------------------------|
| Temperature range       | -40°C to +85°C                 |
| Storage temperature     | -40°C to +85°C                 |
| Thermal shock           | IEC 60169-1 16.4 (-40 / +85°C) |
| Corrosion               | IEC 60169-1 16.7 (48 hrs)      |
| Vibration               | IEC 60068-2-64 random          |
| Damp heat, steady state | IEC 60169-1 16.3 (96 hrs)      |
| RoHS                    | compliant                      |

**Tooling**

|               |            |
|---------------|------------|
| Crimping tool | 11W150-000 |
| Crimp insert  | 11W150-102 |

**Suitable cables**

RG 316 /U, RG 174 A/U, RG 188 A/U

**Weight**

|        |           |
|--------|-----------|
| Weight | 6.9 g/pce |
|--------|-----------|

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| Draft  | Date     | Approved          | Date     | Rev. | Engineering change number  | Name      | Date          |
|--|----------|-------------------|----------|------|--|-----------|---------------|
| Inge Mühlauer  | 05/10/04 | Sa. Krautenbacher | 13.03.14 | g00  | 14-0352  | T. Krojer | 13.03.14      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |          |                   |          |      | Tel.: +49 8684 18-0<br>Fax: +49 8684 18-499<br>email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |           | Page<br>2 / 2 |